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(54) METHOD FOR MANUFACTURING CYCLIC OLEFIN POLYMER

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a method for manufacturing a cyclic olefin polymer showing heat resistance and lowering of the molecular weight and having little residual solvent. SOLUTION: A cyclic olefin polymer composition comprising a cyclic olefin polymer and an organic solvent is subjected to (1) heating with agitation at $\geq 20^{\circ}\text{C}$ and not more than the boiling point of the composition under normal pressure, and then to heating under reduced pressures with continued agitation in a stepwise manner of (2) at $\geq 80^{\circ}\text{C}$ and $\leq 255^{\circ}\text{C}$ under a pressure of ≥ 4 kPa and ≤ 70 kPa and (3) at $\geq 190^{\circ}\text{C}$ and $\leq 255^{\circ}\text{C}$ under a pressure of ≥ 1 kPa and < 4 kPa. The organic solvent in the composition is thus eliminated and the polymer showing little degradation of heat resistance and lowering of the molecular weight and having little residual organic solvent can be obtained.

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